



Recycling & Affirmative Procurement

JSC Update

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March 22, 2007



JSC Mission

Human Exploration and Astromaterials

The mission of the Johnson Space Center is the expansion of a human presence in space through exploration and utilization for the benefit of all. The Center is also responsible for leadership in the field of astromaterials.



Employee / Center Initiatives

- **Brown Bag Lunch**
 - Meets monthly to discuss various topics of interest to employees
- **Plastic Bottle Recycling**
 - Employee volunteer effort in some buildings
- **Sustainability Team**
 - Official JSC group to look at sustainability opportunities



Recycling

- EMS - Environmental Management Program
 - JSC increased our goal to 45% diversion by 2010
 - Currently at 42% diversion

Al Cans	2,445	Scrap Metal	1,276,580
Mixed Office Paper	745,910	Scrap Aluminum	80,260
Cardboard	160,790	Tires	10,625
Toner Cartridges	9,878	Batteries	45,090
Carpet	121,991	Used Oil	11,980
Cement / Concrete	9,220	Soil / Sand	37,100



New Center Ops Contracts



- Moving from 1 consolidated to 5 specific support contracts
 - Environmental, Facilities, Logistics, Grounds, Custodial
 - Environmental: Added
 - Sustainability
 - Technical Assistance
 - Sustainable Acquisition
 - Projects and Program Support
 - Community Outreach
 - Custodial: Added
 - Improved Recycling Program
 - Sustainable Acquisition (biobased)





Sustainable Landscaping

- Prairie Restoration at 5 sites (22 acres)
 - Ladybird Johnson Wildflower Center. Results will be included in LEED sustainable landscape guide.
 - Wildflowers
 - Native prairie grasses
 - Challenges
 - Site prep with mowing and herbicide
 - Weather conditions
 - Site maintenance
 - Excellent feedback from employees
- Design for Native Plant Garden at Rocket Park
 - Waiting on funding



First Year Planting (with Drought)





JSC's Space Chickens





JSC's Space Chickens

- Endangered Attwater's Prairie Chicken
- Partnership with JSC and Houston Zoo
- Space Act Agreement in place
- JSC provides land, utilities for the breeding facility
- Zoo funds everything else
 - Facility, staffing





JSC Space Chickens





JSC's Space Chickens



- Increase of $>10\%$ in egg production in 1 year



- Other Agencies: US Fish & Wildlife, TX Parks and Wildlife, other zoos and universities



LEED Buildings

- Astronaut Quarantine Facility - Bronze
 - Developed specs from CPG for AQF
- New Office Building - Silver
 - Breaking ground summer 2007
- Building 2 modification - Silver



Astronaut Quarantine
Facility



P2 Projects

- Zero Discharge for Photo Lab
 - Totally enclosed recycling system
 - Reworked to remove hazardous chemicals
 - Takes all photo chemicals and generates ultra-pure water for lab
 - Processed ~ 300,000 gal. in the past 2 yrs
- Waste Oil Recycling
 - Recycled ~ 53,000# oils in 2006
- ODS Recycling Project (2006)
 - 1,000 halon fire extinguishers
 - 10,000 pounds of R-12
- Down to the hard stuff
 - Looking at waste paint



